

Myoungsu Shin

List of Publications by Year in descending order

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69
papers

1,648
citations

331259

21
h-index

315357

38
g-index

69
all docs

69
docs citations

69
times ranked

1252
citing authors

#	ARTICLE	IF	CITATIONS
1	Crack and Noncrack Classification from Concrete Surface Images Using Machine Learning. Structural Health Monitoring, 2019, 18, 725-738.	4.3	175
2	Comparative analysis of image binarization methods for crack identification in concrete structures. Cement and Concrete Research, 2017, 99, 53-61.	4.6	144
3	Concrete Crack Identification Using a UAV Incorporating Hybrid Image Processing. Sensors, 2017, 17, 2052.	2.1	143
4	Combined effects of recycled aggregate and fly ash towards concrete sustainability. Construction and Building Materials, 2013, 48, 499-507.	3.2	92
5	Modeling of cyclic joint shear deformation contributions in RC beam-column connections to overall frame behavior. Structural Engineering and Mechanics, 2004, 18, 645-669.	1.0	91
6	Principles and Applications of Ultrasonic-Based Nondestructive Methods for Self-Healing in Cementitious Materials. Materials, 2017, 10, 278.	1.3	60
7	Durability of sustainable sulfur concrete with fly ash and recycled aggregate against chemical and weathering environments. Construction and Building Materials, 2014, 69, 167-176.	3.2	51
8	Self-healing of modified sulfur composites with calcium sulfoaluminate cement and superabsorbent polymer. Composites Part B: Engineering, 2019, 162, 469-483.	5.9	49
9	Development of extreme gradient boosting model for prediction of punching shear resistance of r/c interior slabs. Engineering Structures, 2021, 235, 112067.	2.6	49
10	Effectiveness of diffuse ultrasound for evaluation of micro-cracking damage in concrete. Cement and Concrete Research, 2019, 124, 105862.	4.6	35
11	Cyclic performance of precast coupling beams with bundled diagonal reinforcement. Engineering Structures, 2015, 93, 142-151.	2.6	34
12	Performance assessment method for crack repair in concrete using PZT-based electromechanical impedance technique. NDT and E International, 2019, 104, 90-97.	1.7	32
13	Prediction of seismic drift responses of planar steel moment frames using artificial neural network and extreme gradient boosting. Engineering Structures, 2021, 242, 112518.	2.6	30
14	Concrete contribution to initial shear strength of RC hollow bridge columns. Structural Engineering and Mechanics, 2012, 41, 43-65.	1.0	29
15	Rapid seismic damage-state assessment of steel moment frames using machine learning. Engineering Structures, 2022, 252, 113737.	2.6	29
16	Effectiveness of high performance fiber-reinforced cement composites in slender coupling beams. Construction and Building Materials, 2014, 68, 476-490.	3.2	28
17	Sustainable sulfur composites with enhanced strength and lightweightness using waste rubber and fly ash. Construction and Building Materials, 2017, 135, 650-664.	3.2	27
18	Effect of plant cellulose microfibers on hydration of cement composites. Construction and Building Materials, 2021, 267, 121734.	3.2	27

#	ARTICLE	IF	CITATIONS
19	Seismic toughness and failure mechanisms of reduced web-section beams: Phase 1 tests. <i>Engineering Structures</i> , 2017, 141, 198-216.	2.6	26
20	Microstructure evolution and strength development of ultra rapid hardening cement modified with redispersible polymer powder. <i>Construction and Building Materials</i> , 2018, 192, 715-730.	3.2	24
21	Gravity and Lateral Load-Carrying Capacities of Reinforced Concrete Flat Plate Systems. <i>ACI Structural Journal</i> , 2014, 111, .	0.3	23
22	Rheological properties of modified sulfur polymer composites containing cement-fly ash blend at different temperatures. <i>Construction and Building Materials</i> , 2019, 228, 116784.	3.2	22
23	Water permeability and rapid self-healing of sustainable sulfur composites using superabsorbent polymer and binary cement. <i>Construction and Building Materials</i> , 2020, 265, 120306.	3.2	21
24	Strength and microstructural characteristics of sulfur polymer composites containing binary cement and waste rubber. <i>Construction and Building Materials</i> , 2018, 181, 276-286.	3.2	20
25	Performance and Design of Eccentric Reinforced Concrete Beam-Column Connections Subjected to Seismic Lateral Load Reversals. , 2009, , .		19
26	Seismic toughness and failure mechanisms of reduced web-section beams: Phase 2 tests. <i>Engineering Structures</i> , 2017, 141, 607-623.	2.6	17
27	Cyclic Testing for Seismic Design Guide of Beam-Column Joints with Closely Spaced Headed Bars. <i>Journal of Earthquake Engineering</i> , 2012, 16, 211-230.	1.4	16
28	A dynamic estimation of casualties from an earthquake based on a time-use survey: applying HAZUS-MH software to Ulsan, Korea. <i>Natural Hazards</i> , 2016, 81, 289-306.	1.6	16
29	Effects of Redispersible Polymer Powder on Mechanical and Durability Properties of Preplaced Aggregate Concrete with Recycled Railway Ballast. <i>International Journal of Concrete Structures and Materials</i> , 2018, 12, .	1.4	16
30	Crack identification method for concrete structures considering angle of view using RGB-D camera-based sensor fusion. <i>Structural Health Monitoring</i> , 2021, 20, 500-512.	4.3	15
31	Experimental and Numerical Assessment of Bonded and Unbonded Post-Tensioned Concrete Members. <i>ACI Structural Journal</i> , 2015, 112, .	0.3	15
32	Behaviour of fibre-reinforced beams with diagonal reinforcement. <i>Magazine of Concrete Research</i> , 2015, 67, 1287-1300.	0.9	14
33	Behavior of high-performance fiber-reinforced cement composite columns subjected to horizontal biaxial and axial loads. <i>Construction and Building Materials</i> , 2016, 106, 89-101.	3.2	14
34	Rheological properties of cement pastes with cellulose microfibers. <i>Journal of Materials Research and Technology</i> , 2021, 10, 808-818.	2.6	14
35	Shear strength model for reinforced concrete rectangular hollow columns. <i>Engineering Structures</i> , 2013, 56, 958-969.	2.6	12
36	Stress-based vs. Strain-based safety evaluations of spent nuclear fuel transport casks in energy-limited events. <i>Nuclear Engineering and Design</i> , 2019, 355, 110324.	0.8	12

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37	Machine learning-based prediction for maximum displacement of seismic isolation systems. <i>Journal of Building Engineering</i> , 2022, 51, 104251.	1.6	12
38	Developments in excavation bracing systems. <i>Tunnelling and Underground Space Technology</i> , 2012, 31, 107-116.	3.0	11
39	Combined Effects of Set Retarders and Polymer Powder on the Properties of Calcium Sulfoaluminate Blended Cement Systems. <i>Materials</i> , 2018, 11, 825.	1.3	11
40	Long-term autogenous healing and re-healing performance in concrete: Evaluation using air-coupled surface-wave method. <i>Construction and Building Materials</i> , 2021, 307, 124939.	3.2	11
41	Analytical assessment and modeling of RC beam-column connections strengthened with CFRP composites. <i>Composites Part B: Engineering</i> , 2011, 42, 1786-1798.	5.9	10
42	Effectiveness of low-cost fiber-reinforced cement composites in hollow columns under cyclic loading. <i>Construction and Building Materials</i> , 2013, 47, 623-635.	3.2	10
43	Internal curing of cement composites using kenaf cellulose microfibers. <i>Journal of Building Engineering</i> , 2022, 47, 103867.	1.6	10
44	Towards optimal design of high-rise building tube systems. <i>Structural Design of Tall and Special Buildings</i> , 2012, 21, 447-464.	0.9	9
45	Seismic Performance Evaluation of RC Beam-Column Connections in Special and Intermediate Moment Frames. <i>Journal of Earthquake Engineering</i> , 2013, 17, 187-208.	1.4	9
46	Surface-Wave Based Model for Estimation of Discontinuity Depth in Concrete. <i>Sensors</i> , 2018, 18, 2793.	2.1	9
47	Air-coupled ultrasonic diffuse-wave techniques to evaluate distributed cracking damage in concrete. <i>Ultrasonics</i> , 2022, 125, 106800.	2.1	9
48	Discussion of "Modeling Reinforced-Concrete Beam-Column Joints Subjected to Cyclic Loading" by Laura N. Lowes and Arash Altoontash. <i>Journal of Structural Engineering</i> , 2005, 131, 992-993.	1.7	8
49	Editors' Choice "Review" Electro-Kinetic Decontamination of Radioactive Concrete Waste from Nuclear Power Plants. <i>Journal of the Electrochemical Society</i> , 2018, 165, E330-E344.	1.3	8
50	Practical modelling of high-rise dual systems with reinforced concrete slab-column frames. <i>Structural Design of Tall and Special Buildings</i> , 2009, 19, n/a-n/a.	0.9	7
51	Strength and toughness of hybrid steel and glass fiber-reinforced sulfur polymer composites. <i>Construction and Building Materials</i> , 2019, 228, 116812.	3.2	7
52	Reliability assessment of a planar steel frame subjected to earthquakes in case of an implicit limit-state function. <i>Journal of Building Engineering</i> , 2020, 32, 101782.	1.6	7
53	Monitoring of self-healing in concrete with micro-capsules using a combination of air-coupled surface wave and computer-vision techniques. <i>Structural Health Monitoring</i> , 2022, 21, 1661-1677.	4.3	7
54	Design and behaviour of a reinforced concrete high-rise tube building with belt walls. <i>Structural Design of Tall and Special Buildings</i> , 2012, 21, 918-932.	0.9	5

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55	Applicability of Diffuse Ultrasound to Evaluation of the Water Permeability and Chloride Ion Penetrability of Cracked Concrete. <i>Sensors</i> , 2018, 18, 4156.	2.1	5
56	Effects of soil-structure interaction on seismic performance of a low-rise R/C moment frame considering material uncertainties. <i>Journal of Building Engineering</i> , 2021, 44, 102713.	1.6	5
57	Nonlinear modeling parameters of RC coupling beams in a coupled wall system. <i>Earthquake and Structures</i> , 2014, 7, 817-842.	1.0	5
58	Direct-tensile and flexural strength and toughness of high-strength fiber-reinforced cement composites with different steel fibers. <i>Journal of Asian Concrete Federation</i> , 2016, 2, 67.	0.8	5
59	Evaluation of self-healing in concrete using linear and nonlinear resonance spectroscopy. <i>Construction and Building Materials</i> , 2022, 335, 127492.	3.2	5
60	Unified equivalent frame method for flat plate slab structures under combined gravity and lateral loads - Part 1: derivation. <i>Earthquake and Structures</i> , 2014, 7, 719-733.	1.0	4
61	Reduction of reinforcement congestion in slender coupling beam using bundled diagonal bars. <i>Magazine of Concrete Research</i> , 2017, 69, 1157-1169.	0.9	4
62	Effect of filler particle characteristics on yield stress and viscosity of fresh sulfur composites. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2138-2152.	2.6	4
63	Improved capacity spectrum method with inelastic displacement ratio considering higher mode effects. <i>Earthquake and Structures</i> , 2014, 7, 587-607.	1.0	2
64	Cyclic Behavior of HPRCC Coupling Beams with Bundled Diagonal Bars. <i>International Journal of Concrete Structures and Materials</i> , 2018, 12, .	1.4	2
65	Empirical Gas Explosion Models for Onshore Plant Structures: Review and Comparative Analysis. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, 04020075.	1.0	2
66	Hysteretic Behavior Evaluation of a RC Coupling Beam using a Steel Fiber and Diagonal Reinforcement. <i>Journal of the Korea Concrete Institute</i> , 2015, 27, 291-298.	0.1	2
67	Unified equivalent frame method for flat plate slab structures under combined gravity and lateral loads - Part 2: verification. <i>Earthquake and Structures</i> , 2014, 7, 735-751.	1.0	1
68	Experimental and analytical assessment of SRF and aramid composites in retrofitting RC columns. <i>Earthquake and Structures</i> , 2014, 7, 797-815.	1.0	1
69	Nonlinear seismic assessment of irregular coupled wall systems using high-performance fiber-reinforced cement composites. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1610.	0.9	0